



Strategic Update from the EPSRC

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EPSRC

EPSRC central to UK prosperity



RESEARCH COUNCILS

RCUK

AHRC

BBSRC

ESRC

MRC

NERC

STFC

ACADEMIA

University partners Learned societies Professional bodies

GOVERNMENT DEPARTMENTS

BEIS

DECC

HO

DoH

DfT

MOD

CONNECTED

UK PROSPERITY



PRODUCTIVE



INDUSTRY Innovate UK Leadership Councils Strategic Partners

The outcomes framework



The Outcomes framework provides

- III an exciting, strategic expression of our plans which captures our value-add to the nation
- III contextual opportunities for seeking additional funding from government
- III a framework to help researchers to think about their contribution to national and global challenges and to stimulate collaboration









It is **NOT** intended to tightly prescribe research activities

We continue to welcome long-term discovery-led research

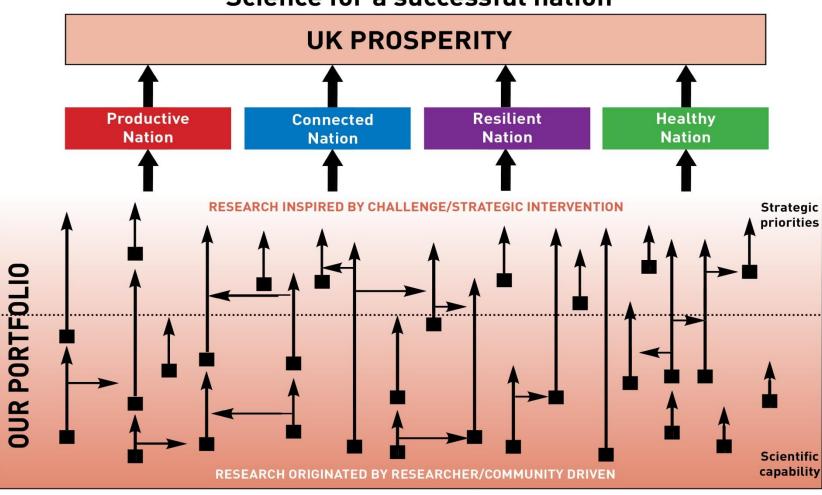
See:

https://www.epsrc.ac.uk/newsevents/news/deliveryplanupdate/outcomesandambitions/

Delivery Plan Framework

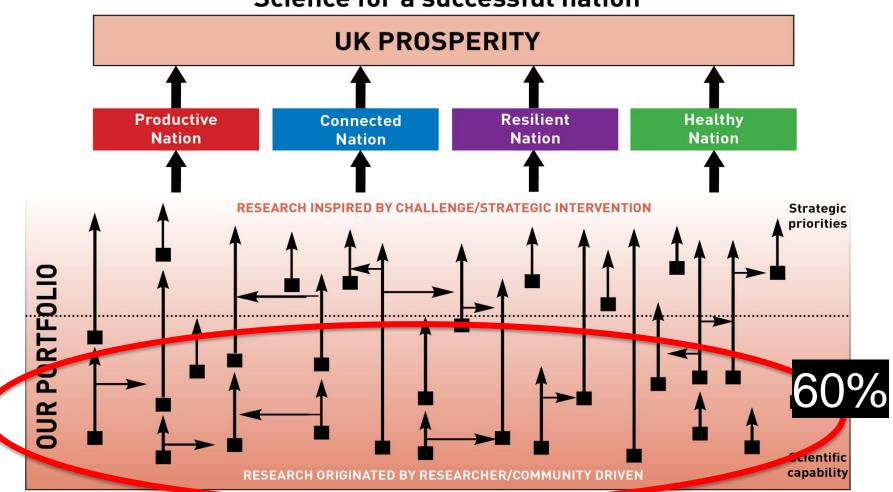


Science for a successful nation



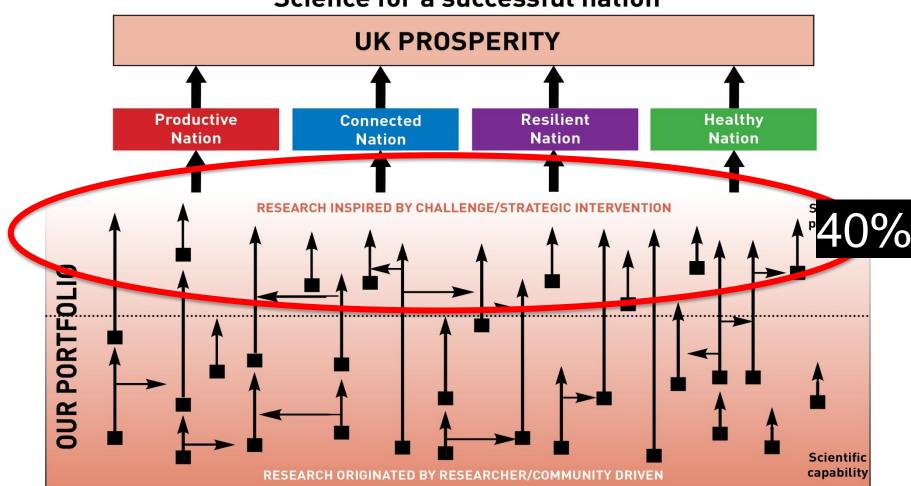


Science for a successful nation





Science for a successful nation



Working with Business





Enabling the research base to respond to industry challenges

Strengthening and optimising links with research users

Research Base

Creating opportunities for collaboration

Business

Current Business Engagement Portfolio



Centres for Doctoral Training THE NUMBER OF CENTRES OF **PARTNERING** COMPANIES

~400 new spin out companies from 2008 to 2013 based on EPSRC research

with turnover \sim £4 bn and employing \sim 50,000 staff



E1.1bn

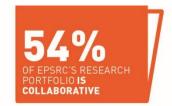
OF

LEVERAGE
FROM

PUBLIC SECTOR
ORGANISATIONS

CHARITIES

Over **60%** of business partnerships are with SMEs



Vision for Business Engagement



"to ensure the investments made by EPSRC are relevant to business, evidenced by increased business involvement and investment and resulting in impact and growth creation."

Visibility

That EPSRC and its investments have high levels of visibility and accessibility for business communities

Engagement

That EPSRC investments continue to attract high levels of business investment and EPSRC policies and processes aid, rather than hinder, business engagement and investment.

Influence

That our strategy and investments are influenced by the views of business and that we influence the ways in which business consider and interact with the research base.

A portfolio of approaches to joint funding



Access to existing EPSRC investment portfolio

Partnering with academics on individual grants or clusters of research and training grants

Joint, cofunded calls for proposals with EPSRC

impact acceleration accounts

one-off projects

networks and large-scale programmes

Long-term strategic partnerships with key HEIs

Industrial CASE PHD studentships

Commitment from companies

Productive nation



New coatings improve performance of aero-engine

- III New coatings developed at Cranfield University with support from EPSRC, the EU and industry, are being used in the aerospace industry to improve performance and increase cost savings
- III Reducing fuel consumption by **over one per cent** and consequently CO2 emissions
- III Saving operators £3.4bn in fuel costs over the 20 year lifetime of the engine
- III Used on the Airbus 380 and Boeing Dreamliner engines enabling Rolls-Royce to increase its market share for large civil aircraft engines



Productive nation



Staying on track

- III Research by EPSRC-funded computer scientists at the University of Leeds led to the creation of software used by more than 40 bus and train companies to construct effective crew timetables, deliver cost-efficient public transport and improve services
- III Delivered savings of over £230M in the UK alone between 2008 and 2013
- III Spin-out company, **Tracsis**, formed in 2004 to commercialise the software



- III Software used by **70% of train companies** operating in the UK as well as in Sweden, Australia and New Zealand
- III Floatation of Tracsis on London Stock Exchange in 2007 with market capitalisation of **nearly £53M** at the end of 2013 and annual turnover of more than **£10M**